NPL-U7-2-227

National Priorities List

Superfund hazardous waste site listed under the
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended in 1986

PASCO SANITARY LANDFILL
Pasco, Washington

Pasco Sanitary Landfill covers 250 acres 1.5 miles northeast of Pasco, Franklin County, Washington, in an area dominated by irrigated agricultural fields and range land. The landfill is privately owned and operated and was converted from a burning dump to a sanitary landfill in 1971. Since 1982, it has had a conditional use permit from the Washington Department of Ecology (WDOE) to accept municipal wastes.

In 1972, Resource Recovery Corp. leased a portion of the landfill and operated a regional hazardous waste disposal site under a WDOE permit until December 1974, when the lease terminated.

According to WDOE files, over 47,000 drums of hazardous substances, including paint wastes, pesticides, organic solvents, cadmium, and mercury, were deposited in the leased portion of the landfill. In 1974, the area was covered by 3 feet of soil.

In 1985, EPA detected tetrachloroethylene and trichloroethylene in on-site ground water. A well on-site supplies drinking water to two nearby residences. Ground water within 3 miles of the site is used by over 1,000 people for drinking and is also used to irrigate almost 10,000 acres of land.

In October 1986, WDOE issued an Administrative Order requiring Pasco to monitor on-site wells on a quarterly basis. The company is currently complying with the order.

NRL-U9-2-227

Facility name: Pasco Sanitary Landfill

Location: Pasco, Washington

EPA Region: 10

Person(s) in charge of tho facility: Larry Dietrich

Namo of Reviewer: Lynn Guilford Date: 5/27/87

General description of the facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concem; types of Infonnation needed for rating; agency action, etc.)

Resource Recovery Corporation operated a portion of Pasco Sanitary Landfill as a hazardous waste disposal site from 1972 to 1974. Currently the disposal areas are all covered with three feet of soil. This cover gives both the surface water and direct contact routes scores of 0. The ground water route has an observed release and a large ground water population giving the site an overall score of 44.46

Scores: S_M = 44.46 (S_{gw} = 76.92 S_{sw} = 0 S_a = 0)

S_{FE} = 0

S_{DC} = 0

FIGURE 1
HRS COVER SHEET

7-16-87

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
[1] Observed Release	0 (45)	1	45	45	3.1
If observed release is given a score of 45, proceed to line [4]. If observed release is given a score of 0, proceed to line [2].					
[2] Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 3	2		6	
Net Precipitation	0 1 2 3	1		3	
Permeability of the Unsaturated Zone	0 1 2 3	1		3	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score				15	
[3] Containment	0 1 2 3	1		3	3.3
[1] Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 (12) 15 18	1	12	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 (8)	1	8	8	
Total Waste Characteristics Score			20	26	
[5] Targets					3.5
Ground Water Use	0 1 2 (3)	3	9	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 (40)	1	40	40	
Total Targets Score			49	49	
[6] If line [1] is 45, multiply [1] x [4] x [5]. If line [4] is 0, multiply [2] x [3] x [4] x [5]			44100	57.330	
[1] Divide line [6] by 57,330 and multiply by 100		S_{gw} =	76.92		

FIGURE 2
GROUND WATER ROUTE WORK SHEET

7-17-87

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1		45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	(0) 1 2 3	1		3	
1-yr. 24-hr. Rainfall	(0) 1 2 3	1		3	
Distance to Nearest Surface Water	(0) 1 2 3	2		6	
Physical State	(0) 1 2 3	1		3	
Total Route Characteristics Score			0	15	
3 Containment	(0) 1 2 3	1	0	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	(0) 3 6 9 12 15 18	1	0	18	
Hazardous Waste Quantity	(0) 1 2 3 4 5 6 7 8	1	0	8	
Total Waste Characteristics Score			0	26	
5 Targets					4.5
Surface Water Use	(0) 1 2 3	3	0	9	
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			0	55	
6 If line 1 is 45, multiply 4 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				64,350	
7 Divide line 6 by 64,350 and multiply by 100		S_{SW} =	0		

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

7-17-87

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
[1] Observed Release	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line [1] is 0, the S_a = 0. Enter on line [5]. If line [1] Is 45, then proceed to line [2].					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
[4] Multiply [1] x [2] x [3]				35,100	
[5] Divide line [4] by 35,100 and multiply by 100		S_a =	0		

FIGURE 9
AIR ROUTE WORK SHEET

7-17-87

	S	S^2
Groundwater Route Score (S_{gw})	76.92	5916.69
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		5916.69
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		76.92
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} \,/\, 1.73 = S_M =$		44.46

FIGURE 10
WORKSHEET FOR COMPUTING S_M

7-17-87

Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} = 0			

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

7-17-87

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Rel. (Section)
[1] Observed Incident	0 45	1		45	8.1
If line [1] is 45, proceed to line [4] If line [1] is 0, proceed to line [2]					
[2] Accessibility	0 (1) 2 3	1	1	3	8.2
[3] Containment	(0) 15	1	0	15	8.3
[1] Waste Characteristics Toxicity	(0) 1 2 3	5	0	15	8.4
[5] Targets					8.5
Population Within a 1-Mile Radius	(0) 1 2 3 4 5	4	0	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			0	32	
[6] If line [1] is 45, multiply [1] x [4] x [5] If line [1] is 0, multiply [2] x [3] x [4] x [5]			0	21,600	
[7] Divide line [6] by 21,600 and multiply by 100		S_{DC} =	0		

FIGURE 12
DIRECT CONTACT WORK SHEET

Martha D Baker
7-17-87

ecology and environment, inc.
101 YESLER WAY, SEATTLE, WASHINGTON, 98104, TEL. 206/624-9537
International Specialists in the Environment

DOCUMENTATION RECORDS

FOR

HAZARD RANKING SYSTEM

Instructions: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility/site. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste Quantity = 4320 drums plus 800 cubic yards of sludges"). The source of the information should be provided for each entry and should be a biographical-type reference that will make the source used for the data point easier to find. Include the location of the source and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Pasco Sanitary Landfill

LOCATION: Kahlotus Road and Highway 12
Pasco, Washington 99301

REVIEWER: Lynn Guilford

TDD: TDD F10-8701-04

ECOLOGY AND ENVIRONMENT, INC.

DATE: June 1987

7-17-87

GROUND WATER ROUTE

1. OBSERVED RELEASE

1a. Contaminants Detected (5 maximum) in Ground Water

Tetrachloroethylene was found in monitoring well EE2.
Trichloroethylene was found in monitoring wells EE2, EE3, and JUB 2.
The levels found were significantly over background (JUB-CNTR)

- Rationale for attributing the contaminants to the facility:

These compounds, tetrachloroethylene and trichloroethylene, were not found in background wells, but were only found in wells downgradient and adjacent to zone A and the old landfill burn and demolition disposal area. Paint wastes were disposed in Zone A.

HRS Section Score: 45 (Ref. 1 p50)

* * * * * * * * * *

2. ROUTE CHARACTERISTICS

2a. Depth to Aquifer of Concern

- Name and description of aquifer(s) of concern:
Water table aquifer, unconfined, which overlies Yakima Basalts. Groundwater occurs 38.5 to 68.7 feet below ground surface at site. See table 4.1 and figures 4.2 and 4.3 of Reference 1 for description of geologic units and cross-sections.

HRS Section Score: (Ref.)

2b. Net Precipitation

- Mean annual or seasonal precipitation (list months for seasonal):

- Mean annual lake evaporation rate (list months for seasonal):

- Net precipitation (subtract above figures):

HRS Section Score: (Ref.

7-17-85

2c. Permeability of Unsaturated Zone

- Soil type in unsaturated zone:

- Permeability associated with soil type:

HRS Section Score: (Ref.)

2d. Physical State

- Physical state of substance at time of disposal (or at present time for generated gases):

HRS Section Score: (Ref.)

* * * * * * * * * *

3. CONTAINMENT

3a. Containment

- Method(s) of waste or leachate containment evaluated:

- Method with highest score:

HRS Section Score: (Ref.)

* * * * * * * * * *

4. WASTE CHARACTERISTICS

4.a Toxicity and Persistence

- Compound(s) evaluated:

Compound	Toxicity	Persistence	Total
Trichloroethylene	2	2	12
Tetrachloroethylene	2	2	12

- Compound(s) with highest score:

Tetrachloroethylene and Trichloroethylene

HRS Section Score: 12 (Ref. 2)

7-17-8

4b. Hazardous Waste Quantity

- Total amount of hazardous substance at the facility, excluding those with a containment score of zero. (Give a reasonable estimate, even if the quantity is above maximum.):

  The total waste quantity is estimated to be approximately 47,000 drums.

- Basis of estimating and/or computing waste quantity (must be documented quantity and not assumed):

Paint Wastes - 26,426 drums	Pesticides - 425 drums
2,4-D Mfg. wastes - 5,080 drums	Metal Finishing/Cleaning - 10,947 drums
Carcinogenics - 9 drums	Solvents - 253 drums
Aromatic Tar -1,159 drums	Barium with Mercury - 2,896 drums
Cadmium Waste - 11 drums	

HRS Section Score: 8 (Ref. 1,3,4,5)

* * * * * * * * * *

5. TARGETS

5a. Ground Water Use

- Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

  Ground water is used for drinking water and irrigation within three miles of the site. Some of the wells used for drinking water are beyond the perimeter of the public water supply system.

HRS Section Score: 3 (Ref. 6,7,8, 9,10,11,12,13)

5b. Distance to Nearest Well

- Location of nearest well drawing from the "aquifer of concern" or occupied building not served by a public water supply:

  SW 1/4, NW 1/4, Section 22, Township 9N, Range 30E.

- Distance from site to above well or building:

  The well is on site, approximately 800 feet north of monitoring wells EE2, EE3, and JUB 2, which are contaminated.

HRS Section Score: 4 (Ref. 11,13)

7-17-87

5c. Population Served by Ground Water within a 3-Mile Radius

- Identify water supply well(s) drawing from the "aquifer of concern" within a 3-mile radius and populations served by each:

See sheet 4A

Total 1048

- Compute land area irrigated by supply well(s) drawing from the "aquifer of concern" and convert to population (1.5 people per acre):

See Sheets 4B,C,D

- Total population served by ground water:

1048 + 14820 = 15868

HRS Section Score: 40 (Ref. 7,8,9, 10,11,12,13,14)

7-17-87

Pasco Sanitary Landfill

6/5/87

GW used for drinking water within 3 miles of above site

Name	Pop. Served	Reference #
1. Washington Idaho Laborers	3.8	7
2. Paul Savage	3.8	7
3. Al Yenney	3.8	7
4. Tom Kidwell	3.8	7
5. Van Wormer	3.8	7
6. Lakeview Mobile Home Park	800	8
7. Rada Sons	16	8
9. AZTLAN Construction Inc	20	8
10. BPA - Franklin	16	8
11. Bonne Brae Trailer Court	65	8
12. De Vries Water system	12	8
13. Palmarez	3.8	10
14. Marquez	3.8	10
15. Johnson & Boxbaum	3.8	10
16. Bumgarner	3.8	10
17. Dall	3.8	10
18. Cunningham	3.8	10
19. Rasmussen	3.8	10
20. Western Farm Services	24	8
21. Frontier Machinery	50	8
Total	1048.6	

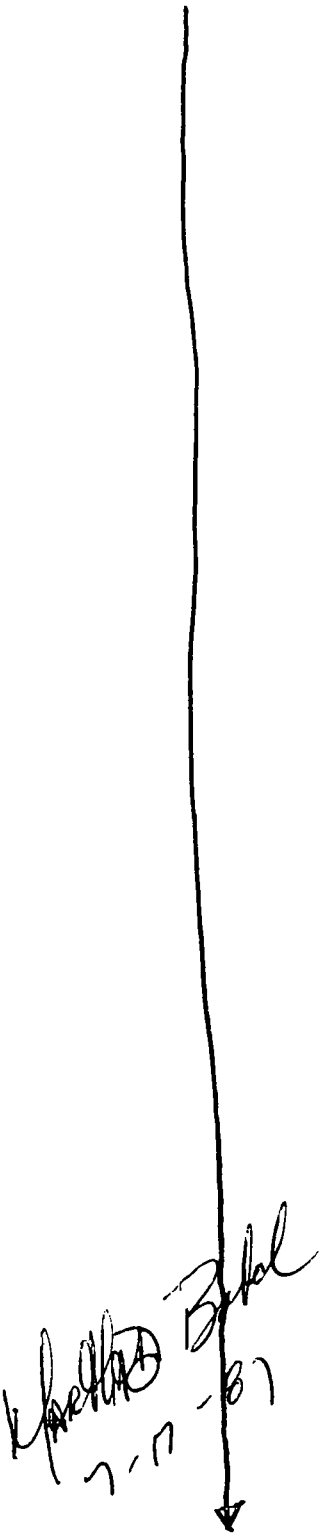
17-17-87

Pasco Sanitary Landfill

6/10/87

GW used for irrigation within 3 miles of above site:

Name	Acres	Reference #
Burlington Northern	520	9
"	130	
Conn Mut Life Ins	145	
Burlington Northern	520	
"	520	
"	300	
Middleton	142	
"	20	
Columbia East	268	
Burlington Northern	137	
"	160	
"	400	
"	315	
"	107	
"	300	
"	200	
Sullivan	20	
Burlington Northern	107	
"	300	
"	40	
Alderson	150	
Columbia East	500	
Burlington Northern	315	
"	40	
"	75	
Hill	15	
USCE	10	



Standard Oil	.75
Minnahan	40
Conn Mut Life Ins	137
Tippett	135
"	160
Conn Mut Life Ins.	160
Worsham	157
Cox	157
"	5
Conn Mut Life Ins	130
"	155
Worsham	157
Burlington Northern	480
WA ST DNR	520
Columbia East	130
Burlington Northern	130
Seattle Hardware	4
Close	1
Modd	2
Fanning	7
Frontier Machinery	12.5
Pasco, City of	15
Columbia	268
Dietrich	38
Tomlinson	345
Palomarez	26
Burden	20
Eastern Wa ID	5
Spooner	1
Reisinger	2

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Jonathan Bridal
1-17-87

Reisinger	6.5	
Mann	10	
Johnson	5.5	
Lourdes	.5	
Pasco, City of	10	
Pasco, Port of	3	
Columbia East	495	
Story Hill	73	
	20	
USCE	100	
Total	9879.75	acres
	x 1.5	people per acre
	14820	people

Martha D Bodal
7-17-87

SURFACE WATER ROUTE

1. OBSERVED RELEASE

1a. Contaminants Detected in the Surface Water at the Facility or Down Gradient from It (5 maximum)

No observed release.

- Rationale for attributing contaminants to the facility:

HRS Section Score: (Ref.)

* * * * * * * * * *

2. ROUTE CHARACTERISTICS

2a. Facility Slope and Intervening Terrain

- Average slope of facility/site in percent:

The site is relatively flat (less than 1%).

- Name description of nearest down-slope surface water:

The only down slope water within two miles is a man-made dairy pond.

- Average slope of terrain between facility and above-cited surface water body in percent:

The average slope is less than 1%.

- Is the facility located either totally or partially in surface water?
Yes / No (circle one)

- Is the facility completely surrounded by areas of higher elevation?
Yes / No (circle one)

HRS Section Score: 0 (Ref. 1,12,13)

2b. 1-Year 24-Hour Rainfall in Inches

Less than 0.75

HRS Section Score: 0 (Ref. 2)

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2c. Distance to Nearest Down-slope Surface Water

The man-made dairy pond is approximately 1,500 feet southwest of the site. No natural water is located within two miles of the site.

HRS Section Score: 0 (Ref. 1,12,13, 15,16)

2d. Physical State of Substance at Time of Disposal

No known waste is available to surface water migration.

HRS Section Score: 0 (Ref. 1)

* * * * * * * * * *

3. CONTAINMENT

3a. Containment

- Method(s) of waste or leachate containment:

All known hazardous wastes have been covered.

- Method with highest score:

All known hazardous wastes are covered with three feet of soil, four mil polyethylene sheeting, and capped with an additional two feet of soil.

HRS Section Score: 0 (Ref. 1)

* * * * * * * *

4. WASTE CHARACTERISTICS

4a. Toxicity and Persistence

- Compound(s) evaluated:

Compound	Toxicity	Persistence	Total

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- Compound(s) with highest score:

  No known compounds are available to migration.

HRS Section Score: 0 (Ref. 1)

4b. Hazardous Waste Quantity

- Total amount of hazardous substance at the facility/site, excluding those with a containment score of zero. (Give a reasonable estimate, even if the quantity is above maximum.):

  No known waste is available to surface water migration.

- Basis of estimating and/or computing waste quantity (must be documented and not assumed):

HRS Section Score: 0 (Ref. 1)

* * * * * * * * * *

5. TARGETS

5a. Surface Water Uses

- Use(s) of surface water within 3-miles downstream of the hazardous substance:

  No natural surface water is used within two miles of the site and no known hazardous wastes are available to migration.

- Is there tidal influence? Yes / No (circle one)

HRS Section Score: (Ref. 1)

5b. Distance to Sensitive Environment

- Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

- Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

- Distance to critical habitat of federal endangered species or national wildlife refuge, if 1 mile or less:

HRS Section Score: 0 (Ref. 1

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5c. Population Served by Surface Water

- Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static bodies) downstream of the hazardous substance and population served by each intake:

  No known wastes are available to surface water. No natural surface water is located within two miles of the site.

- Compute land area irrigated by above-cited intake(s) and convert to population (1.5 people per acre):

- Total population served: 0

- Name and description of nearest above-cited water bodies:

- Distance from probable point of entry to above-cited intakes (stream miles):

HRS Section Score: 0 (Ref. 1,12,13, 15,16)

* * * * * * * * * *

7-17-87

AIR ROUTE

1. OBSERVED RELEASE

1a. Contaminants Detected in Ambient Air

None observed.

- Date and location of detection of contaminants:

- Method used to detect contaminants:

- Rationale for attributing contaminants to the site:

HRS Section Score: 0 (Ref. 1,15)

* * * * * * * * * *

2. WASTE CHARACTERISTICS

2a. Reactivity and Incompatibility

- Most reactive compound:

- Most incompatible pair of compounds:

HRS Section Score: (Ref.)

2b. Toxicity

- Most toxic compound:

Compound	Toxicity

HRS Section Score: (Ref.)

2c. Hazardous Waste Quantity

- Total quantity of hazardous waste at the facility/site:

1-17-8

- Basis of estimating and/or computing waste quantity:

HRS Section Score: (Ref.)

* * * * * * * * * *

3. TARGETS

3a. Population Within 4-mile Radius

- Enter data under respective radius and indicate how determined:

0 to 4 miles	0 to 1 mile	0 to 1/2 mile	0 to 1/4 mile

HRS Section Score: (Ref.)

3b. Distance to Sensitive Environment

- Distance to 5-acre (minimum) coastal wetlands, if 2 miles or less:

- Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

- Distance to critical habitat of an endangered species, if 1 mile or less:

HRS Section Score: (Ref.)

3c. Land Use

- Distance to commercial/industrial area, if 1 mile or less:

- Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

- Distance to residential area, if 2 miles or less:

- Distance to agricultural land in production within past 5 years, if 1 mile or less:

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- Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

- Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site:

HRS Section Score: (Ref.)

7-17-87

FIRE AND EXPLOSION

FIRE MARSHAL'S STATEMENT:

This site poses no fire/explosive potential (Ref. 16).

1. CONTAINMENT

- Hazardous substance present:

- Type of containment, if applicable:

HRS Section Score: (Ref.)

* * * * * * * * * *

2. WASTE CHARACTERISTICS

2a. Direct Evidence

- Type of Instrument and Measurement:

HRS Section Score: (Ref.)

2b. Ignitability

- Compound considered:

HRS Section Score: (Ref.)

2c. Reactivity

- Most reactive compound:

HRS Section Score: (Ref.)

2d. Incompatibility

- Most incompatible pair of compounds:

HRS Section Score: (Ref.)

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2e. Hazardous Waste Quantity

- Total quantity of hazardous substance(s) at the facility/site:

- Basis for estimating and/or computing waste quantity:

HRS Section Score: (Ref.)

* * * * * * * * * *

3. TARGETS

3a. Distance to Nearest Population

HRS Section Score: (Ref.)

3b. Distance to Nearest Building

HRS Section Score: (Ref.)

3c. Distance to Nearest Sensitive Environment

- Distance to wetlands:

- Distance to critical habitat:

HRS Section Score: (Ref.)

3d. Land Use

- Distance to commercial/industrial area, if 1 mile or less:

- Distance to national or state park, forest, or wildlife refuge, if 2 miles or less:

- Distance to residential area, if 2 miles or less:

- Distance to agricultural land in production within past 5 years, if 1 mile or less:

7-1-86

- Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

- Is a historic or landmark site within view of the site?
  Yes / No (circle one)

HRS Section Score: (Ref.)

3e. Population Within 2-Mile Radius

HRS Section Score: (Ref.)

3f. Buildings Within 2-Mile Radius

HRS Section Score: (Ref.)

1-17-87

DIRECT CONTACT

1. OBSERVED INCIDENT

1a. Date, Location, and Pertinent Details of Incident

No observed incident reported.

HRS Section Score: 0 (Ref. 1,15)

* * * * * * * * * *

2. ACCESSIBILITY

2a. Describe Type of Barrier(s)

Site is not fenced. However, the operator's residence is on site.

HRS Section Score: 1 (Ref. 17)

* * * * * * * * * *

3. CONTAINMENT

3a. Type of Containment, if Applicable

The known hazardous waste is covered with three feet of soil, four mil polyethylene sheeting, and capped with an additional two feet of soil.

HRS Section Score: 0 (Ref. 1)

* * * * * * * * * *

4. WASTE CHARACTERISTICS

4a. Toxicity

- Compounds evaluated:

Compound	Toxicity
No compounds available for contact.	

- Compound with highest score:

1-17-87

HRS Section Score: 0 (Ref. 1)

* * * * * * * * * *

5. TARGETS

5a. Population Within 1-mile Radius of Site

No compounds available for contact.

HRS Section Score: (Ref. 1)

5b. Distance to Critical Habitat (of Endangered Species)

HRS Section Score: (Ref.)

* * * * * * * * * *

7-17-87

REFERENCES

1. Ecology and Environment, Inc., June 1986. Final Report for Resource Recovery Corporation, Pasco, Washington.

2. U.S. Environmental Protection Agency (USEPA), 1984, Uncontrolled Hazardous Waste Site Ranking System, A User's Manual. 47FR 31220-31241.

3. Kimberly Jr., John R., President, Resource Recovery Corporation, July 2, 1980. Letter to Department of Ecology.

4. Washington Department of Ecology, Dec. 1973. Industrial Waste Disposal Site Evaluation.

5. Resource Recovery Corporation, June 11, 1973 to January 17, 1975, Monthly Waste Summaries to Washington Department of Ecology.

6. Personal Communication, May 27, 1987. Pat Barttels, City of Pasco Engineering Department, Engineering Technician, to Charles F. Pitz, E&E, Seattle.

7. Washington State Well Logs.

8. State of Washington Public Water Supply System Listing.

9. Washington State Water Rights Data.

10. U.S. Geological Survey Well Records.

11. Washington State Well Log for John Dietrich's Well located at SW 1/4, NW 1/4, Sec. 22, T9N, R30E.

12. U.S. Geological Survey (USGS), 1964. Pasco, Washington, Quadrangle Map, 7.5 Minute Series, Photo Revised 1973.

13. U.S. Geological Survey (USGS)), 1979. Glade, Washington Quadrangle Map, 7.5 Minute Series.

14. Personal Communication, May 28, 1987. Cindy Christian, Washington Department of Ecology, Eastern District Office, to Charles F. Pitz, E&E, Seattle.

15. Personal Communication, May 29, 1987. Jean Tomlinson to Gloria Skinner, E&E, Seattle.

16. Personal Communication, June 1, 1987. Don Carter, Franklin County Fire Marshall to Gloria Skinner, E&E, Seattle.

17. Ecology and Environment, Inc., January 1985. Preliminary Site Inspection Report of Resource Recovery Corporation, Pasco, Washington.

18. Personal Communication with Richard Heinemeyer, 7/17/87

7-17-87

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

MAY 17 1988

MEMORANDUM

SUBJECT: Municipal Landfill Support Documentation

FROM: Scott Parrish, Chief
Hazard Ranking and Listing Branch

TO: The Record

In an effort to ensure that the worst sites are being addressed first, the Agency has elected to require some special documentation for sites considered to be municipal landfills. This position was detailed in an August 21, 1987 memorandum from Henry Longest II to the Regional Offices. Consequently, for each municipal landfill being proposed in Update #7 to the National Priorities List, a cover letter is being included with the Hazard Ranking System package. This cover letter summarizes the health and environmental concerns at the landfill. Specifically, the cover letter examines the site history to indicate the types of materials disposed or believed disposed at the site (if known), presents any monitoring data indicating a release from the site, and provides a general assessment of the environmental and public health risks at the site.

Attached is the municipal landfill cover letter for this site.

Attachment

PASCO SANITARY LANDFILL

The Pasco Sanitary Landfill covers 250 acres and is located 1.5 miles northeast of Pasco, Washington in an area dominated by irrigated agricultural fields and range land. The landfill is privately owned and operated and was converted from a waste burning dump to sanitary landfill in 1971. In 1972, Resource Recovery Corporation leased a portion of the landfill and operated a regional hazardous waste disposal site under a Washington Department of Ecology (Ecology) permit until December 1974 when the lease terminated.

Over 47,000 drums of various hazardous substances were deposited in the leased portions of the landfill and covered by three feet of soil. Wastes known to be deposited include chlor-alkali sludge, paints, resins, herbicide manufacturing wastes, caustics, and empty pesticide containers.

In a 1985 site inspection by EPA, tetrachloroethylene (32 ppb) and trichloroethylene (480 ppb) were detected in monitoring wells on site. When sampled in 1986 by EPA, low-level organics contamination was detected in three domestic wells downgradient of the landfill. Further investigation by EPA in 1987 revealed that levels of tetrachloroethylene had increased to 72 ppb in an on-site monitoring well and trichloroethylene had increased to 1900 ppb, also in an on-site monitoring well. Low-level organics contamination was detected in only one domestic well downgradient at levels much lower than drinking water standards. Highly variable levels of inorganics had been detected in the 1985, 1986, and 1987 on-site groundwater samples. The variability has been attributed to siltation, different sampling techniques, and a highly channelized groundwater flow beneath the landfill.

The Pasco Sanitary Landfill poses potential risks to the environment and public health. There is a drinking water well on site which supplies water to two nearby residences. Low level organics contamination has been detected in nearby drinking water wells, although it is not clear at this time whether this contamination can be directly attributed to the landfill. Groundwater is used by over 1,000 people within three miles for drinking and is also used to irrigate almost 10,000 acres of land.

The landfill is currently operating under an Ecology permit and is under an Ecology administrative order to conduct a quarterly groundwater monitoring program using on-site monitoring wells. In addition, the landfill had been proposed for expansion.